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Amendments to the Claims:

Please cancel Claim 1 without prejudice.

Please amend Claims 3-7 as follows.

WHAT IS CLAIMED IS:

- 1 1. (Cancelled)
- 1 2. (Canceled)
- 1 3. (Currently amended) A combine harvester, including a threshing, cleaning and  
2 separation system, having:  
3 wheels for propelling the combine harvester over the ground;  
4 an engine driving the wheels via a hydrostatic drive system of a transmission, wherein the  
5 transmission includes a gear select lever for changing a gear ratio of the transmission;  
6 a speed modification switch having a first state and a second state, wherein movement of  
7 the gear select lever from a first position to a second position switches the speed modification  
8 switch from the first state to the second state and changes the gear ratio;  
9 a manually operable throttle control switch having a plurality of positions, each position  
10 corresponding to a desired engine speed level; and  
11 an engine control circuit for controlling the speed of the engine, the engine control circuit  
12 being responsive to input from the throttle control switch and the speed modification switch for  
13 selectively controlling the engine to run at a first speed for a given position of the throttle control  
14 switch when the speed modification switch is in the first state, the first speed being selectable

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15 from a range of engine speeds that provide fuel economy and prevent power overload of the  
16 threshing, cleaning and separation systems during crop harvesting; the threshing, cleaning and  
17 separation systems obtaining their power from the engine, the engine control circuit being further  
18 responsive to input from the throttle control switch and the speed modification switch for  
19 controlling the engine to run at a second speed higher than the first speed when the throttle  
20 control switch is in the given position and the speed modification switch is in the second state,  
21 the engine control circuit providing additional power to permit higher engine speeds for  
22 propelling the combine harvester at the second speed higher than the first speed when the  
23 threshing, cleaning and separation systems are not operating, the additional power normally  
24 being used to power the threshing, cleaning and separation systems during crop harvesting, the  
25 engine control circuit comprising a programmable microprocessor connected to receive input  
26 from the throttle control switch and the speed modification switch. A combine harvester as  
27 claimed in claim 1, wherein said the programmable microprocessor comprises comprising:

28           means for storing a first table holding work speed values, one work speed value  
29           corresponding to each position of said the throttle control, and a second table holding at  
30           least one road speed value greater than any of said the work speed values;

31           means for accessing a work speed value from said the first table when said the  
32           speed modification switch is in said the first state and accessing a road speed value from  
33           said the second table when said the speed modification switch is in said the second state;

34           and,

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35 means responsive to an accessed work speed value or road speed value for  
36 producing an output signal to control ~~said~~ the engine to run at the speed represented by  
37 ~~said~~ the accessed work speed value or accessed road speed value.

1 4. (Currently Amended) A combine harvester as claimed in claim 3 wherein ~~said~~ the table  
2 of road speed values includes a road speed value corresponding to each position of ~~said~~ the  
3 throttle control, the road speed value corresponding to a given position of ~~said~~ the throttle control  
4 being greater than the work speed value corresponding to ~~said~~ the given position of ~~said~~ the  
5 throttle control whereby, for each position of ~~said~~ the throttle control, ~~said~~ the engine may be  
6 selectively controlled to run at a first speed or a second speed higher than ~~said~~ the first speed,  
7 depending on the state of ~~said~~ the speed modification switch.

1 5. (Currently Amended) A combine harvester as claimed in claim 3 wherein ~~said~~ the output  
2 signal controls the rate of fuel flow to ~~said~~ engine.

1 6. (Currently Amended) A combine harvester as claimed in claim 3, wherein the threshing,  
2 cleaning and separation system is powered by ~~said~~ the engine, and ~~said~~ the work speed values are  
3 chosen so the output power of ~~said~~ the engine does not overload other harvester components to  
4 include the threshing, cleaning and separation system.

1 7. (Currently Amended) A combine harvester as claimed in claim 3, wherein ~~said~~ the work  
2 speed values correspond to engine speed values when the combine harvester is operated to  
3 harvest a field, and ~~said~~ the road speed values correspond to engine speed values when the  
4 combine harvester is operated to travel on a roadway.